

Frank Beier

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

134
papers

5,359
citations

44
h-index

67
g-index

180
ext. papers

6,035
ext. citations

5.6
avg, IF

5.81
L-index

#	Paper	IF	Citations
134	RhoA/ROCK signaling regulates Sox9 expression and actin organization during chondrogenesis. <i>Journal of Biological Chemistry</i> , 2005 , 280, 11626-34	5.4	220
133	Regulation of chondrocyte differentiation by the actin cytoskeleton and adhesive interactions. <i>Journal of Cellular Physiology</i> , 2007 , 213, 1-8	7	196
132	RhoA/ROCK signaling regulates chondrogenesis in a context-dependent manner. <i>Journal of Biological Chemistry</i> , 2006 , 281, 13134-13140	5.4	145
131	Cartilage biology in osteoarthritis--lessons from developmental biology. <i>Nature Reviews Rheumatology</i> , 2011 , 7, 654-63	8.1	140
130	CCN2 is necessary for adhesive responses to transforming growth factor-beta1 in embryonic fibroblasts. <i>Journal of Biological Chemistry</i> , 2006 , 281, 10715-26	5.4	130
129	MAP kinases in chondrocyte differentiation. <i>Developmental Biology</i> , 2003 , 263, 165-75	3.1	128
128	p38 MAP kinase signalling is required for hypertrophic chondrocyte differentiation. <i>Biochemical Journal</i> , 2004 , 378, 53-62	3.8	118
127	Mouse models of osteoarthritis: modelling risk factors and assessing outcomes. <i>Nature Reviews Rheumatology</i> , 2014 , 10, 413-21	8.1	113
126	TGFbeta and PTHrP control chondrocyte proliferation by activating cyclin D1 expression. <i>Molecular Biology of the Cell</i> , 2001 , 12, 3852-63	3.5	113
125	Microarray analyses of gene expression during chondrocyte differentiation identifies novel regulators of hypertrophy. <i>Molecular Biology of the Cell</i> , 2005 , 16, 5316-33	3.5	111
124	Biology and pathology of Rho GTPase, PI-3 kinase-Akt, and MAP kinase signaling pathways in chondrocytes. <i>Journal of Cellular Biochemistry</i> , 2010 , 110, 573-80	4.7	107
123	RhoA/ROCK signaling suppresses hypertrophic chondrocyte differentiation. <i>Journal of Biological Chemistry</i> , 2004 , 279, 13205-14	5.4	104
122	Forced mobilization accelerates pathogenesis: characterization of a preclinical surgical model of osteoarthritis. <i>Arthritis Research and Therapy</i> , 2007 , 9, R13	5.7	98
121	Rac1 signaling stimulates N-cadherin expression, mesenchymal condensation, and chondrogenesis. <i>Journal of Biological Chemistry</i> , 2007 , 282, 23500-8	5.4	93
120	Rho/ROCK and MEK/ERK activation by transforming growth factor-alpha induces articular cartilage degradation. <i>Laboratory Investigation</i> , 2010 , 90, 20-30	5.9	87
119	p38 MAPK signaling during murine preimplantation development. <i>Developmental Biology</i> , 2004 , 268, 76-88	3.1	84
118	Chondrocyte hypertrophy in skeletal development, growth, and disease. <i>Birth Defects Research Part C: Embryo Today Reviews</i> , 2014 , 102, 74-82		82

117	Genetic ablation of Rac1 in cartilage results in chondrodysplasia. <i>Developmental Biology</i> , 2007 , 306, 612-33		82
116	Rac1/Cdc42 and RhoA GTPases antagonistically regulate chondrocyte proliferation, hypertrophy, and apoptosis. <i>Journal of Bone and Mineral Research</i> , 2005 , 20, 1022-31	6.3	78
115	Early Changes of Articular Cartilage and Subchondral Bone in The DMM Mouse Model of Osteoarthritis. <i>Scientific Reports</i> , 2018 , 8, 2855	4.9	76
114	The role of Akt1 in terminal stages of endochondral bone formation: angiogenesis and ossification. <i>Bone</i> , 2009 , 45, 1133-45	4.7	76
113	The Raf-1/MEK/ERK pathway regulates the expression of the p21(Cip1/Waf1) gene in chondrocytes. <i>Journal of Biological Chemistry</i> , 1999 , 274, 30273-9	5.4	76
112	Cell-cycle control and the cartilage growth plate. <i>Journal of Cellular Physiology</i> , 2005 , 202, 1-8	7	75
111	Atrx deficiency induces telomere dysfunction, endocrine defects, and reduced life span. <i>Journal of Clinical Investigation</i> , 2013 , 123, 2049-63	15.9	74
110	The critical role of the epidermal growth factor receptor in endochondral ossification. <i>Journal of Bone and Mineral Research</i> , 2011 , 26, 2622-33	6.3	72
109	C-type natriuretic peptide regulates endochondral bone growth through p38 MAP kinase-dependent and -independent pathways. <i>BMC Developmental Biology</i> , 2007 , 7, 18	3.1	70
108	The PI3K pathway regulates endochondral bone growth through control of hypertrophic chondrocyte differentiation. <i>BMC Developmental Biology</i> , 2008 , 8, 40	3.1	68
107	The transcription factor ATF3 is upregulated during chondrocyte differentiation and represses cyclin D1 and A gene transcription. <i>BMC Molecular Biology</i> , 2006 , 7, 30	4.5	68
106	Activating transcription factor 2 is necessary for maximal activity and serum induction of the cyclin A promoter in chondrocytes. <i>Journal of Biological Chemistry</i> , 2000 , 275, 12948-53	5.4	63
105	Nitric oxide, C-type natriuretic peptide and cGMP as regulators of endochondral ossification. <i>Developmental Biology</i> , 2008 , 319, 171-8	3.1	56
104	Transforming growth factor alpha suppression of articular chondrocyte phenotype and Sox9 expression in a rat model of osteoarthritis. <i>Arthritis and Rheumatism</i> , 2007 , 56, 3693-705		55
103	Expression profiling of Dexamethasone-treated primary chondrocytes identifies targets of glucocorticoid signalling in endochondral bone development. <i>BMC Genomics</i> , 2007 , 8, 205	4.5	54
102	Adult cartilage-specific peroxisome proliferator-activated receptor gamma knockout mice exhibit the spontaneous osteoarthritis phenotype. <i>American Journal of Pathology</i> , 2013 , 182, 1099-106	5.8	51
101	An in vivo investigation of the initiation and progression of subchondral cysts in a rodent model of secondary osteoarthritis. <i>Arthritis Research and Therapy</i> , 2012 , 14, R26	5.7	51
100	Emerging Frontiers in cartilage and chondrocyte biology. <i>Best Practice and Research in Clinical Rheumatology</i> , 2011 , 25, 751-66	5.3	51

99	ADAMTS-7 forms a positive feedback loop with TNF- α in the pathogenesis of osteoarthritis. <i>Annals of the Rheumatic Diseases</i> , 2014 , 73, 1575-84	2.4	50
98	Recent developments in emerging therapeutic targets of osteoarthritis. <i>Current Opinion in Rheumatology</i> , 2017 , 29, 96-102	5.3	49
97	Characterization of human type X procollagen and its NC-1 domain expressed as recombinant proteins in HEK293 cells. <i>Journal of Biological Chemistry</i> , 1998 , 273, 4547-55	5.4	48
96	Genomic organization and full-length cDNA sequence of human collagen X. <i>FEBS Letters</i> , 1992 , 311, 305-10	3.0	48
95	Transforming growth factor alpha controls the transition from hypertrophic cartilage to bone during endochondral bone growth. <i>Bone</i> , 2012 , 51, 131-41	4.7	47
94	Association of cartilage-specific deletion of peroxisome proliferator-activated receptor γ with abnormal endochondral ossification and impaired cartilage growth and development in a murine model. <i>Arthritis and Rheumatism</i> , 2012 , 64, 1551-61		46
93	The pattern recognition receptor CD36 is a chondrocyte hypertrophy marker associated with suppression of catabolic responses and promotion of repair responses to inflammatory stimuli. <i>Journal of Immunology</i> , 2009 , 182, 5024-31	5.3	46
92	F-spondin, a neuroregulatory protein, is up-regulated in osteoarthritis and regulates cartilage metabolism via TGF-beta activation. <i>FASEB Journal</i> , 2009 , 23, 79-89	0.9	46
91	p38 MAP kinase signaling is necessary for rat chondrosarcoma cell proliferation. <i>Oncogene</i> , 2004 , 23, 3726-31	9.2	45
90	Focal adhesion kinase/Src suppresses early chondrogenesis: central role of CCN2. <i>Journal of Biological Chemistry</i> , 2008 , 283, 9239-47	5.4	44
89	Reduction in disease progression by inhibition of transforming growth factor β signaling in experimental posttraumatic osteoarthritis. <i>Arthritis and Rheumatology</i> , 2015 , 67, 2691-701	9.5	43
88	Transcriptional regulators of chondrocyte hypertrophy. <i>Birth Defects Research Part C: Embryo Today Reviews</i> , 2008 , 84, 123-30		42
87	TGF- β and osteoarthritis--the good and the bad. <i>Nature Medicine</i> , 2013 , 19, 667-9	50.5	41
86	Time-series transcriptional profiling yields new perspectives on susceptibility to murine osteoarthritis. <i>Arthritis and Rheumatism</i> , 2012 , 64, 3256-66		41
85	Role of c-fos in the regulation of type X collagen gene expression by PTH and PTHrP: localization of a PTH/PTHrP-responsive region in the human COL10A1 enhancer. <i>Journal of Cellular Biochemistry</i> , 2002 , 86, 688-99	4.7	41
84	Repeated exposure to high-frequency low-amplitude vibration induces degeneration of murine intervertebral discs and knee joints. <i>Arthritis and Rheumatology</i> , 2015 , 67, 2164-75	9.5	40
83	The cyclin D1 and cyclin A genes are targets of activated PTH/PTHrP receptors in Jansen's metaphyseal chondrodysplasia. <i>Molecular Endocrinology</i> , 2002 , 16, 2163-73		39
82	Cell cycle genes in chondrocyte proliferation and differentiation. <i>Matrix Biology</i> , 1999 , 18, 109-20	11.4	39

81	Interplay between genetics and epigenetics in osteoarthritis. <i>Nature Reviews Rheumatology</i> , 2020 , 16, 268-281	8.1	38
80	Genome-wide analyses of gene expression during mouse endochondral ossification. <i>PLoS ONE</i> , 2010 , 5, e8693	3.7	38
79	Cartilage-specific deletion of Mig-6 results in osteoarthritis-like disorder with excessive articular chondrocyte proliferation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 2590-5	11.5	37
78	Loss of bone sialoprotein leads to impaired endochondral bone development and mineralization. <i>Bone</i> , 2015 , 71, 145-54	4.7	36
77	Reduced EGFR signaling enhances cartilage destruction in a mouse osteoarthritis model. <i>Bone Research</i> , 2014 , 2, 14015	13.3	36
76	The retinoic acid binding protein CRABP2 is increased in murine models of degenerative joint disease. <i>Arthritis Research and Therapy</i> , 2009 , 11, R14	5.7	36
75	C-type natriuretic peptide regulates cellular condensation and glycosaminoglycan synthesis during chondrogenesis. <i>Endocrinology</i> , 2007 , 148, 5030-41	4.8	36
74	Osteopontin mediates mineralization and not osteogenic cell development in <i>in vitro</i> . <i>Biochemical Journal</i> , 2014 , 464, 355-64	3.8	34
73	Elevated expression of periostin in human osteoarthritic cartilage and its potential role in matrix degradation via matrix metalloproteinase-13. <i>FASEB Journal</i> , 2015 , 29, 4107-21	0.9	33
72	Disturbed cartilage and joint homeostasis resulting from a loss of mitogen-inducible gene 6 in a mouse model of joint dysfunction. <i>Arthritis and Rheumatology</i> , 2014 , 66, 2816-27	9.5	33
71	Src kinase inhibition promotes the chondrocyte phenotype. <i>Arthritis Research and Therapy</i> , 2007 , 9, R105-7	5.7	33
70	Deletion of Panx3 Prevents the Development of Surgically Induced Osteoarthritis. <i>Journal of Molecular Medicine</i> , 2015 , 93, 845-56	5.5	32
69	Localization of silencer and enhancer elements in the human type X collagen gene. <i>Journal of Cellular Biochemistry</i> , 1997 , 66, 210-8	4.7	31
68	Molecular and histological analysis of a new rat model of experimental knee osteoarthritis. <i>Annals of the New York Academy of Sciences</i> , 2007 , 1117, 165-74	6.5	31
67	Type X collagen expression and hypertrophic differentiation in chondrogenic neoplasias. <i>Histochemistry and Cell Biology</i> , 1997 , 107, 435-40	2.4	30
66	Human stanniocalcin-1 or -2 expressed in mice reduces bone size and severely inhibits cranial intramembranous bone growth. <i>Transgenic Research</i> , 2010 , 19, 1017-39	3.3	29
65	Inhibition of p38 MAPK signaling in chondrocyte cultures results in enhanced osteogenic differentiation of perichondral cells. <i>Experimental Cell Research</i> , 2007 , 313, 146-55	4.2	29
64	Role of interleukin-10 in endochondral bone formation in mice: anabolic effect via the bone morphogenetic protein/Smad pathway. <i>Arthritis and Rheumatism</i> , 2013 , 65, 3153-64		28

63	Activating transcription factor 2 controls Bcl-2 promoter activity in growth plate chondrocytes. <i>Journal of Cellular Biochemistry</i> , 2007 , 101, 477-87	4.7	28
62	Upregulation of type X collagen expression in osteoarthritic cartilage. <i>Acta Orthopaedica</i> , 1995 , 66, 125-129		28
61	Loss of ATRX in chondrocytes has minimal effects on skeletal development. <i>PLoS ONE</i> , 2009 , 4, e7106	3.7	25
60	Regulator of G-protein signaling (RGS) proteins differentially control chondrocyte differentiation. <i>Journal of Cellular Physiology</i> , 2006 , 207, 735-45	7	25
59	Global deletion of Panx3 produces multiple phenotypic effects in mouse humeri and femora. <i>Journal of Anatomy</i> , 2016 , 228, 746-56	2.9	23
58	Inducible nitric oxide synthase-nitric oxide signaling mediates the mitogenic activity of Rac1 during endochondral bone growth. <i>Journal of Cell Science</i> , 2011 , 124, 3405-13	5.3	23
57	Endothelial nitric oxide synthase deficiency in mice results in reduced chondrocyte proliferation and endochondral bone growth. <i>Arthritis and Rheumatism</i> , 2010 , 62, 2013-22		23
56	Novel Insights into Osteoarthritis Joint Pathology from Studies in Mice. <i>Current Rheumatology Reports</i> , 2015 , 17, 50	4.9	21
55	Control of chondrocyte gene expression by actin dynamics: a novel role of cholesterol/Ror-alpha signalling in endochondral bone growth. <i>Journal of Cellular and Molecular Medicine</i> , 2009 , 13, 3497-516	5.6	21
54	Nuclear receptors regulate lipid metabolism and oxidative stress markers in chondrocytes. <i>Journal of Molecular Medicine</i> , 2017 , 95, 431-444	5.5	20
53	Choline kinase beta is required for normal endochondral bone formation. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2014 , 1840, 2112-22	4	20
52	Loss of the mammalian DREAM complex deregulates chondrocyte proliferation. <i>Molecular and Cellular Biology</i> , 2014 , 34, 2221-34	4.8	20
51	Control of chondrocyte gene expression by actin dynamics: a novel role of cholesterol/Ror- α signalling in endochondral bone growth. <i>Journal of Cellular and Molecular Medicine</i> , 2009 , 13, 3497-3516	5.6	20
50	Regulation of gene expression by PI3K in mouse growth plate chondrocytes. <i>PLoS ONE</i> , 2010 , 5, e8866	3.7	20
49	ECM signaling in cartilage development and endochondral ossification. <i>Current Topics in Developmental Biology</i> , 2019 , 133, 25-47	5.3	18
48	F-spondin deficient mice have a high bone mass phenotype. <i>PLoS ONE</i> , 2014 , 9, e98388	3.7	17
47	The CPPDD-associated ANKH M48T mutation interrupts the interaction of ANKH with the sodium/phosphate cotransporter PiT-1. <i>Journal of Rheumatology</i> , 2009 , 36, 1265-72	4.1	17
46	Variability in the upstream promoter and intron sequences of the human, mouse and chick type X collagen genes. <i>Matrix Biology</i> , 1996 , 15, 415-22	11.4	17

45	EGFR Signaling: Friend or Foe for Cartilage?. <i>JBMR Plus</i> , 2019 , 3, e10177	3.9	16
44	Targeted loss of the ATR-X syndrome protein in the limb mesenchyme of mice causes brachydactyly. <i>Human Molecular Genetics</i> , 2013 , 22, 5015-25	5.6	16
43	Raf signaling stimulates and represses the human collagen X promoter through distinguishable elements. <i>Journal of Cellular Biochemistry</i> , 1999 , 72, 549-57	4.7	16
42	Context-specific protection of TGF β null mice from osteoarthritis. <i>Scientific Reports</i> , 2016 , 6, 30434	4.9	16
41	Targeting cartilage EGFR pathway for osteoarthritis treatment. <i>Science Translational Medicine</i> , 2021 , 13,	17.5	15
40	Poly(ester amide) particles for controlled delivery of celecoxib. <i>Journal of Biomedical Materials Research - Part A</i> , 2019 , 107, 1235-1243	5.4	13
39	Rac1 activation induces tumour necrosis factor- α expression and cardiac dysfunction in endotoxemia. <i>Journal of Cellular and Molecular Medicine</i> , 2011 , 15, 1109-21	5.6	13
38	Dexamethasone stimulates expression of C-type Natriuretic Peptide in chondrocytes. <i>BMC Musculoskeletal Disorders</i> , 2006 , 7, 87	2.8	13
37	Serum induction of the collagen X promoter requires the Raf/MEK/ERK and p38 pathways. <i>Biochemical and Biophysical Research Communications</i> , 1999 , 262, 50-4	3.4	12
36	The role of bone sialoprotein in the tendon-bone insertion. <i>Matrix Biology</i> , 2016 , 52-54, 325-338	11.4	11
35	Transforming growth factor-alpha induces endothelin receptor A expression in osteoarthritis. <i>Journal of Orthopaedic Research</i> , 2012 , 30, 1391-7	3.8	11
34	Rho-ROCK signaling differentially regulates chondrocyte spreading on fibronectin and bone sialoprotein. <i>American Journal of Physiology - Cell Physiology</i> , 2008 , 295, C38-49	5.4	11
33	PPAR γ 2 expression in growth plate chondrocytes is regulated by p38 and GSK-3. <i>Journal of Cellular and Molecular Medicine</i> , 2010 , 14, 242-56	5.6	10
32	Mosaic expression of Atrx in the mouse central nervous system causes memory deficits. <i>DMM Disease Models and Mechanisms</i> , 2017 , 10, 119-126	4.1	9
31	Thermoresponsive and Covalently Cross-Linkable Hydrogels for Intra-Articular Drug Delivery.. <i>ACS Applied Bio Materials</i> , 2019 , 2, 3498-3507	4.1	9
30	The role of activating transcription factor-2 in skeletal growth control. <i>Journal of Bone and Joint Surgery - Series A</i> , 2003 , 85-A Suppl 2, 133-6	5.6	8
29	Nuclear receptors as potential drug targets in osteoarthritis. <i>Current Opinion in Pharmacology</i> , 2018 , 40, 81-86	5.1	7
28	Dicam promotes proliferation and maturation of chondrocyte through Indian hedgehog signaling in primary cilia. <i>Osteoarthritis and Cartilage</i> , 2018 , 26, 945-953	6.2	7

27	Developmental biology: Is there such a thing as a cartilage-specific knockout mouse?. <i>Nature Reviews Rheumatology</i> , 2014 , 10, 702-4	8.1	7
26	Deletion of Dual Specificity Phosphatase 1 Does Not Predispose Mice to Increased Spontaneous Osteoarthritis. <i>PLoS ONE</i> , 2015 , 10, e0142822	3.7	6
25	The first international workshop on the epigenetics of osteoarthritis. <i>Connective Tissue Research</i> , 2017 , 58, 37-48	3.3	5
24	Exposure to the RXR Agonist SR11237 in Early Life Causes Disturbed Skeletal Morphogenesis in a Rat Model. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	5
23	Rac1 Dosage Is Crucial for Normal Endochondral Bone Growth. <i>Endocrinology</i> , 2017 , 158, 3386-3398	4.8	4
22	Loss of ATRX does not confer susceptibility to osteoarthritis. <i>PLoS ONE</i> , 2013 , 8, e85526	3.7	4
21	Identification of the putative collagen X gene from the pufferfish <i>Fugu rubripes</i> . <i>Gene</i> , 2004 , 342, 77-83	3.8	4
20	GSK3787-Loaded Poly(Ester Amide) Particles for Intra-Articular Drug Delivery. <i>Polymers</i> , 2020 , 12,	4.5	4
19	Glycogen synthase kinase 3 alpha/beta deletion induces precocious growth plate remodeling in mice. <i>Journal of Molecular Medicine</i> , 2021 , 99, 831-844	5.5	4
18	The Role of Panx3 in Age-Associated and Injury-Induced Intervertebral Disc Degeneration. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	3
17	Polymer particles for the intra-articular delivery of drugs to treat osteoarthritis. <i>Biomedical Materials (Bristol)</i> , 2021 ,	3.5	2
16	A top-notch dilemma: The complex role of NOTCH signaling in osteoarthritis. <i>Science Signaling</i> , 2015 , 8, fs14	8.8	1
15	Overexpression of MIG-6 in the cartilage induces an osteoarthritis-like phenotype in mice. <i>Arthritis Research and Therapy</i> , 2020 , 22, 119	5.7	1
14	Skeletal development and regeneration. <i>Current Opinion in Orthopaedics</i> , 1999 , 10, 466-471		1
13	Quantification of joint blood flow by dynamic contrast-enhanced near-infrared spectroscopy: application to monitoring disease activity in a rat model of rheumatoid arthritis. <i>Journal of Biomedical Optics</i> , 2020 , 25, 1-10	3.5	1
12	Quantifying joint blood flow in a rat model of rheumatoid arthritis with dynamic contrast-enhanced near-infrared spectroscopy 2019 ,		1
11	Exposure to the RXR agonist SR11237 in early life causes disturbed skeletal morphogenesis in a rat model		1
10	Glycogen synthase kinase 3 alpha/beta deletion induces precocious growth plate remodeling and cell loss in mice		1

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| 9 | Cholesterol and cartilage do not mix well. <i>Nature Reviews Rheumatology</i> , 2019 , 15, 253-254 | 8.1 | o |
| 8 | Liver X Receptor activation regulates genes involved in lipid homeostasis in developing chondrocytes. <i>Osteoarthritis and Cartilage Open</i> , 2020 , 2, 100030 | 1.5 | o |
| 7 | Expansion of myeloid-derived suppressor cells contributes to metabolic osteoarthritis through subchondral bone remodeling. <i>Arthritis Research and Therapy</i> , 2021 , 23, 287 | 5.7 | o |
| 6 | Diet-induced obesity leads to behavioral indicators of pain preceding structural joint damage in wild-type mice. <i>Arthritis Research and Therapy</i> , 2021 , 23, 93 | 5.7 | o |
| 5 | Inactivation of hepatic ATRX in Foxg1cre mice prevents reversal of aging-like phenotypes by thyroxine. <i>Aging</i> , 2018 , 10, 1223-1238 | 5.6 | |
| 4 | Keep your Sox on, chondrocytes!. <i>Nature Reviews Rheumatology</i> , 2021 , 17, 383-384 | 8.1 | |
| 3 | Cartilage Differentiation and the Actin Cytoskeleton 2016 , 253-267 | | |
| 2 | Genetic Deletion of Interleukin-15 Is Not Associated with Major Structural Changes Following Experimental Post-Traumatic Knee Osteoarthritis in Rats. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 7118 ^{2.6} | | |
| 1 | A Na/K ATPase Pump Regulates Chondrocyte Differentiation and Bone Length Variation in Mice.. <i>Frontiers in Cell and Developmental Biology</i> , 2021 , 9, 708384 | 5.7 | |